

Faculty of Geosciences
The list of courses potentially available in English
in the academic year 2019/2020

No.	Degree of study	Type of study	PL Przedmiot	Course	ECTS POINTS	Semester	Year of studying	Course code
1		geography	geografia społeczna	social geography	5	first (autumn)	1	7.1WN24AIJ119_2S
2		geography	geologia	geology	4	first (autumn)	1	7.1WN24AIJ119_39S
3		geography	kartografia i topografia	cartography and topography	4	first (autumn)	1	7.1WN24AIJ119_38S
4		geography	geografia gospodarcza	economic geography	5	second (spring)	1	7.1WN24AIJ119_47S
5		geography	geografia ludności i osadnictwa	geography of populations and settlement	5	second (spring)	1	7.1WN24AIJ119_3S
6		geography	hydrologia i oceanografia	hydrology and oceanography	5	second (spring)	1	7.1WN24AIJ119_55S
7		geography	meteorologia i klimatologia	meteorology and climatology	5	second (spring)	1	7.1WN24AIJ119_54S
8		geography	metody analiz statystycznych	methods of statistical analysis	3	second (spring)	1	7.1WN24AIJ119_44S
9		geography	systemy informacji geograficznej	geographic information systems	1	second (spring)	1	7.1WN24AIJ119_46S
10		geography	geografia polityczna	political geography	4	first (autumn)	2	7.1WN24AIJ119_56S
11		geography	geomorfologia	geomorphology	4	first (autumn)	2	7.1WN24AIJ119_60S
12		geography	gleboznawstwo i geografia gleb	soil science and soil geography	4	first (autumn)	2	7.1WN24AIJ119_58S
13		geography	podstawy gospodarki przestrzennej	basics of spatial management	4	first (autumn)	2	7.1WN24AIJ119_59S
14		geography	systemy informacji geograficznej	geographic information systems	3	first (autumn)	2	7.1WN24AIJ119_46S
15		geography	teledetekcja	remote sensing	3	first (autumn)	2	7.1WN24AIJ119_57S
16		geography	planowanie przestrzenne	spatial planning	4	second (spring)	2	7.1WN24AIJ119_63S
17		geography	podstawy kształtowania i ochrony środowiska	basics of environmental management and protection	4	second (spring)	2	7.1WN24AIJ119_62S
18		geography	ekologia krajobrazu	landscape ecology	6	first (autumn)	3	7.1WN24AIJ119_10S
19		geography	geografia regionalna świata - Europa	regional geography of the world - Europe	4	first (autumn)	3	7.1WN24AIJ119_66S
20		geography	geografia społeczno-ekonomiczna Polski	socio-economic geography of Poland	4	first (autumn)	3	7.1WN24AIJ119_71S
21		geography	geostatystyczne metody badań środowiska geograficznego	geostatistical methods of geographical environment research	6	first (autumn)	3	7.1WN24AIJ119_7S
22		geography	seminarium dyplomowe	diploma seminar	2	first (autumn)	3	7.1WN24AIJ119_67S
23		geography	geografia regionalna świata - kraje pozaeuropejskie	regional geography of the world - non-European countries	4	second (spring)	3	7.1WN24AIJ119_69S
24		geography	seminarium dyplomowe	diploma seminar	12	second (spring)	3	7.1WN24AIJ119_67S
25		geology	geologia fizyczna z elementami planisekcji	physical geology with elements of planisection	6	first (autumn)	1	7.3WN81AIJ2820_56S
26		geology	geomorfologia	geomorphology	6	first (autumn)	1	7.3WN81AIJ2821_1S
27		geology	mineralogia	mineralogy	6	first (autumn)	1	7.3WN81AIJ2819_58S
28		geology	geoinformatyka	geoinformatics	6	second (spring)	1	7.3WN81AIJ2826_12S
29		geology	paleontologia	paleontology	4	second (spring)	1	7.3WN81AIJ119_2S
30		geology	petrografia	petrography	6	second (spring)	1	7.3WN81AIJ2819_2S
31		geology	podstawy geochronologii i stratygrafii	basics of geochronology and stratigraphy	4	second (spring)	1	7.3WN81AIJ119_3S
32		geology	geologia dna mórz i oceanów	geology of the seabed and ocean floor	6	first (autumn)	2	7.3WN81AIJ2820_4S
33		geology	kartografia geologiczna	geological cartography	6	first (autumn)	2	7.3WN81AIJ2820_66S
34		geology	podstawy tektoniki i geologii strukturalnej	basics of tectonics and structural geology	4	first (autumn)	2	7.3WN81AIJ2961_3S
35		geology	sedymtologia	sedimentology	6	first (autumn)	2	7.3WN81AIJ2820_67S
36		geology	geologia czwartorzędowa	quaternary geology	5	second (spring)	2	7.3WN81AIJ2959_8S
37		geology	geologia historyczna	historical geology	5	second (spring)	2	7.3WN81AIJ119_1S
38		geology	globalne zmiany klimatyczne	global climate change	2	second (spring)	2	7.3WN81AIJ2823_86S
39		geology	ochrona litosfery i hydrosfery	protection of the lithosphere and hydrosphere	3	second (spring)	2	7.3WN81AIJ2819_7S
40		geology	paleoklimatologia	paleoclimatology	2	second (spring)	2	7.3WN81AIJ2823_85S
41		geology	geologia złożowa	economic geology	4	first (autumn)	3	7.3WN81AIJ2821_72S
42		geology	hydrogeologia	hydrogeology	5	first (autumn)	3	7.3WN81AIJ119_96S
43		geology	seminarium dyplomowe	diploma seminar	4	first (autumn)	3	7.3WN81AIJ2821_73S
44		geology	podstawy geofizyki	basics of geophysics	5	second (spring)	3	7.3WN81AIJ2820_78S
45		geology	seminarium dyplomowe	diploma seminar	10	second (spring)	3	7.3WN81AIJ2821_73S
46		spatial management	podstawy geodezji, kartografii i teledetekcji	basics of geodesy, cartography and remote sensing	4	first (autumn)	1	2.0VII54AIWN0_10S
47		spatial management	podstawy gospodarki przestrzennej	basics of spatial management	4	first (autumn)	1	2.0VII54AIWN0_09S
48		spatial management	przyrodnicze podstawy gospodarowania w przestrzeni	natural determinants of spatial management	4	first (autumn)	1	2.0VII54AIWN0_11S
49		spatial management	społeczno-kulturowe uwarunkowania gospodarki przestrzennej	socio-cultural determinants of spatial management	4	first (autumn)	1	2.0VII54AIWN0_12S
50		spatial management	geografia społeczno-ekonomiczna	socio-economic geography	3	second (spring)	1	2.0VII54AIWN0_19S
51		spatial management	geograficzne systemy informacyjne	geographical information systems	4	second (spring)	1	2.0VII54AIWN0_23S
52		spatial management	ekonomika miast i regionów	economics of cities and regions	3	first (autumn)	2	2.0VII54AIWN0_31S
53		spatial management	fizjografia planistyczna	planning physiography	4	first (autumn)	2	2.0VII54AIWN0_32S
54		spatial management	inwentaryzacja urbanistyczna	urban inventory	3	first (autumn)	2	2.0VII54AIWN0_33S
55		spatial management	lokalizacja działalności gospodarczej	location of economic activity	3	first (autumn)	2	2.0VII54AIWN0_28S
56		spatial management	metody analizy przestrzennej	methods of spatial analysis	4	first (autumn)	2	2.0VII54AIWN0_30S
57		spatial management	planowanie strategiczne obszarów	strategic planning of areas	4	first (autumn)	2	2.0VII54AIWN0_27S
58		spatial management	zastosowanie GIS w gospodarce przestrzennej	GIS application in spatial management	4	first (autumn)	2	2.0VII54AIWN0_34S
59		spatial management	planowanie przestrzenne	spatial planning	4	second (spring)	2	2.0VII54AIWN0_40S
60		spatial management	problematyka wodna w gospodarce przestrzennej	water issues in spatial management	3	second (spring)	2	2.0VII54AIWN0_43S
61		spatial management	projektowanie urbanistyczne	urban design	4	second (spring)	2	2.0VII54AIWN0_42S
62		tourism and recreation	ekonomika turystyki i rekreacji	economics of tourism and recreation	4	first (autumn)	2	7.1WN35AIJ119_9S
63		tourism and recreation	finanse i rachunkowość w turystyce i rekreacji	finance and accounting in tourism and recreation	4	first (autumn)	2	7.1WN35AIJ119_1S
64		tourism and recreation	inwentaryzacja krajoznawcza	heritage inventory	4	first (autumn)	2	7.1WN35AIJ119_9S
65		tourism and recreation	Pomorze jako region turystyczny	Pomerania as a tourist region	2	first (autumn)	2	7.1WN35PIJ119_18S
66		tourism and recreation	przedsiębiorstwo turystyczne	tourism enterprise	4	first (autumn)	2	7.1WN35AIJ119_2S
67		tourism and recreation	systemy komputerowe w turystyce	computer systems in tourism	4	first (autumn)	2	7.1WN35AIJ119_3S
68		tourism and recreation	turystyka kwalifikowana	qualified tourism	2	first (autumn)	2	7.1WN35AIJ119_45S
69		tourism and recreation	waloryzacja turystyczna	tourist valorization	4	first (autumn)	2	7.1WN35AIJ119_10S
70		tourism and recreation	dziedzictwo kulturowe Pomorza Zachodniego	cultural heritage of West Pomerania	3	second (spring)	2	7.1WN35PIJ119_4S
71		tourism and recreation	geografia polityczna	political geography	3	second (spring)	2	7.1WN35AIJ119_47S
72		tourism and recreation	hotelarstwo	hotel industry	3	second (spring)	2	7.1WN35AIJ119_10S
73		tourism and recreation	lokalne uwarunkowania rozwoju turystyki	local determinants of tourism development	2	second (spring)	2	7.1WN35PIJ119_3S
74		tourism and recreation	organizowanie imprez rekreacyjnych i animacja czasu wolnego	organisation of recreational events and animation of free time activities	3	second (spring)	2	7.1WN35PIJ119_1S
75		tourism and recreation	organizowanie imprez turystycznych	organisation of tourist events	4	second (spring)	2	7.1WN35AIJ119_4S
76		tourism and recreation	zagospodarowanie turystyczne i rekreacyjne	tourism and recreation planning	3	second (spring)	2	7.1WN35AIJ119_49S
77		tourism and recreation	informacja i promocja w turystyce i rekreacji	information and promotion in tourism and recreation	3	first (autumn)	3	7.1WN35AIJ119_6S
78		tourism and recreation	informacja turystyczno-krajoznawcza	tourist and sightseeing information	3	first (autumn)	3	7.1WN35AIJ119_14S
79		tourism and recreation	obsługa imprez rekreacyjnych	recreational event management	3	first (autumn)	3	7.1WN35AIJ119_7S
80		tourism and recreation	oddziaływanie turystyki na środowisko	tourism environmental impact	3	first (autumn)	3	7.1WN35AIJ119_4S
81		tourism and recreation	przestrzeń turystyczna Polski	tourist space of Poland	3	first (autumn)	3	7.1WN35AIJ119_55S
82		tourism and recreation	wychowanie zdrowotne	health education	3	first (autumn)	3	7.1WN35AIJ119_54S
83		tourism and recreation	seminarium dyplomowe	diploma seminar	2	first (autumn)	3	7.1WN35AIJ119_57S
84		tourism and recreation	aerozole morskie z elementami talasoterapii	sea aerosols with elements of thalassotherapy	2	second (spring)	3	7.1WN35AIJ119_65S
85		tourism and recreation	marketing usług turystycznych	marketing of tourism services	2	second (spring)	3	7.1WN35AIJ119_66S
86		tourism and recreation	współczesne tendencje w turystyce i rekreacji	contemporary trends in tourism and recreation	1	second (spring)	3	7.1WN35AIJ119_63S
87		tourism and recreation	seminarium dyplomowe	diploma seminar	12	second (spring)	3	7.1WN35AIJ119_57S

88	I	oceanography	ekologia	ecology	4	first (autumn)	1	13.8WN38AIU119_13S
89	I	oceanography	geologia	geology	5	first (autumn)	1	13.8WN38AIU2759_40S
90	I	oceanography	kartografia	cartography	4	first (autumn)	1	13.8WN38AIU2758_41S
91	I	oceanography	hydrobiologia	hydrobiology	5	second (spring)	1	13.8WN38AIU119_15S
92	I	oceanography	hydrochemia	hydrochemistry	5	second (spring)	1	13.8WN38AIU2819_46S
93	I	oceanography	klimatologia i meteorologia	climatology and meteorology	6	second (spring)	1	13.8WN38AIU2755_47S
94	I	oceanography	fizyka morza	marine physics	5	first (autumn)	2	13.8WN38AIU119_17S
95	I	oceanography	geologia morza	marine geology	5	first (autumn)	2	13.8WN38AIU2759_52S
96	I	oceanography	oceanografia chemiczna	chemical oceanography	5	first (autumn)	2	13.8WN38AIWNoZ_49S
97	I	oceanography	teledetekcja	remote sensing	4	first (autumn)	2	13.8WN38AIU2758_53S
98	I	oceanography	oceanografia biologiczna	biological oceanography	7	second (spring)	2	13.8WN38AIU2757_54S
99	I	oceanography	oceanografia fizyczna	physical oceanography	7	second (spring)	2	13.8WN38AIU2756_55S
100	I	oceanography	ochrona środowiska morskiego	marine environment protection	3	second (spring)	2	13.8WN38AIU2757_57S
101	I	oceanography	paleoceanografia	paleoceanography	4	second (spring)	2	13.8WN38AIU119_19S
102	I	water safety	geograficzne podstawy bezpieczeństwa wodnego	geographical basis of water safety	1	first (autumn)	1	1.71WN114PIU119_15
103	I	water safety	kwalfikowana pierwsza pomoc	qualified first aid	3	first (autumn)	1	1.71WN114PIU119_22S
104	I	water safety	monitoring środowiska wodnego i edukacja ekologiczna	monitoring of the aquatic environment and ecological education	3	first (autumn)	1	1.71WN114PIU119_19S
105	I	water safety	elementy hydrologii i oceanografii	elements of hydrology and oceanography	3	second (spring)	1	1.71WN114PIU119_27S
106	I	water safety	kwalfikowana pierwsza pomoc	qualified first aid	4	second (spring)	1	1.71WN114PIU119_22S
107	I	water safety	meteorologia	meteorology	3	second (spring)	1	1.71WN114PIU119_25S
108	I	water safety	klimatologia i bioklimatologia	climatology and bioclimatology	3	first (autumn)	2	1.71WN114PIU119_37S
109	I	water safety	teledetekcja i kartografia	remote sensing and cartography	4	second (spring)	2	1.71WN114PIU119_43S
110	I	water safety	turystyka i rekreacja wodna	tourism and water recreation	2	second (spring)	2	1.71WN114PIU119_42S
111	II	geography	geografia fizyczna	physical geography	2	first (autumn)	1	1.71WN24AIU119_52S
112	II	geography	geografia społeczno-gospodarcza	socio-economic geography	2	first (autumn)	1	1.71WN24AIU119_53S
113	II	geography	globalne problemy demograficzne	global demographic problems	4	first (autumn)	1	1.71WN24AIU119_50S
114	II	geography	globalne zmiany litosfery	global changes of the lithosphere	4	first (autumn)	1	1.71WN24AIU119_51S
115	II	geography	katastrofy naturalne i kryzysy środowiskowe w dziejach Ziemi	natural disasters and environmental crises in the Earth history	4	first (autumn)	1	1.71WN24AIU119_38S
116	II	geography	metodologia nauk geograficznych	methodology of geographic sciences	3	first (autumn)	1	1.71WN24AIU119_47S
117	II	geography	metody badań w geografii	research methods in geography	5	first (autumn)	1	1.71WN24AIU119_49S
118	II	geography	rozwój regionalny i lokalny	regional and local development	2	first (autumn)	1	1.71WN24AIU119_78S
119	II	geography	wprowadzenie do marketingu miejsc	introduction to the marketing of places	4	first (autumn)	1	1.71WN24AIU119_27S
120	II	geography	antropogeografia	anthropogeography	2	second (spring)	1	1.71WN24AIU119_66S
121	II	geography	biogeografia	biogeography	2	second (spring)	1	1.71WN24AIU119_64S
122	II	geography	GIS w planowaniu przestrzennym	GIS in spatial planning	2	second (spring)	1	1.71WN24AIU119_90S
123	II	geography	globalne zmiany atmosfery i klimatu	global changes in the atmosphere and climate	4	second (spring)	1	1.71WN24AIU119_61S
124	II	geography	gospodarowanie złożami geologicznymi	management of geological deposits	2	second (spring)	1	1.71WN24AIU119_55S
125	II	geography	marka miejsca	brand of space	2	second (spring)	1	1.71WN24AIU119_28S
126	II	geography	marketing terytorialny	territorial marketing	2	second (spring)	1	1.71WN24AIU119_81S
127	II	geography	trendy światowej gospodarki	global economy trends	4	second (spring)	1	1.71WN24AIU119_62S
128	II	geography	zagrożenia geologiczne i geomorfologiczne	geological and geomorphological threats	4	second (spring)	1	1.71WN24AIU119_39S
129	II	geography	zarządzanie terytorialne	territorial management	2	second (spring)	1	1.71WN24AIU119_80S
130	II	geography	pracownia dyplomowa	diploma workshop	3	second (spring)	1	1.71WN24AIU119_67S
131	II	geography	seminarium dyplomowe	diploma seminar	3	second (spring)	1	1.71WN24AIU119_68S
132	II	geography	problemy społeczno-kulturowe świata	socio-cultural problems of the world	4	first (autumn)	2	1.71WN24AIU119_69S
133	II	geography	rekonstrukcja, monitoring modelowanie i prognozowanie zagrożeń	reconstruction, monitoring, modeling and forecasting of threats	6	first (autumn)	2	1.71WN24AIU119_44S
134	II	geography	społeczno-ekonomiczne skutki zagrożeń	socio-economic effects of threats	3	first (autumn)	2	1.71WN24AIU119_45S
135	II	geography	współczesne problemy hydrologiczne	modern hydrological problems	4	first (autumn)	2	1.71WN24AIU119_70S
136	II	geography	zagrożenia antropogeniczne	anthropogenic threats	2	first (autumn)	2	1.71WN24AIU119_42S
137	II	geography	zagrożenia hydrometeorologiczne	hydrometeorological threats	3	first (autumn)	2	1.71WN24AIU119_43S
138	II	geography	pracownia dyplomowa	diploma workshop	2	first (autumn)	2	1.71WN24AIU119_67S
139	II	geography	seminarium dyplomowe	diploma seminar	2	first (autumn)	2	1.71WN24AIU119_68S
140	II	geography	globalne zmiany biosfery	global biosphere changes	4	second (spring)	2	1.71WN24AIU119_71S
141	II	geography	pracownia dyplomowa	diploma workshop	4	second (spring)	2	1.71WN24AIU119_67S
142	II	geography	seminarium dyplomowe	diploma seminar	12	second (spring)	2	1.71WN24AIU119_68S
143	II	geology	geologia czwartorzęd	quaternary geology	8	first (autumn)	1	1.73WN81AIU119_45
144	II	geology	geologia morza	marine geology	8	first (autumn)	1	1.73WN81AIU119_45
145	II	geology	geologia środowiskowa	environmental geology	7	first (autumn)	1	1.73WN81AIU119_75
146	II	geology	ładowe i morskie środowiska sedymentacyjne	land and marine sedimentation environments	8	first (autumn)	1	1.73WN81AIU119_39S
147	II	geology	warsztaty hydrochemiczne	hydrochemical workshops	2	first (autumn)	1	1.73WN81AIU119_23S
148	II	geology	warsztaty palinologiczne	palynological workshops	2	first (autumn)	1	1.73WN81AIU119_24S
149	II	geology	warsztaty sedimentologiczne	sedimentological workshops	2	first (autumn)	1	1.73WN81AIU119_25S
150	II	geology	warsztaty z geochemii środowiskowej	workshops on environmental geochemistry	2	first (autumn)	1	1.73WN81AIU119_22S
151	II	geology	geostatystyka i geologiczne modelowanie	geostatistics and geological modeling	6	second (spring)	1	1.73WN81AIU119_35
152	II	geology	paleogeografia	palaeogeography	4	second (spring)	1	1.73WN81AIU119_55
153	II	geology	paleoceanografia	palaeoceanology	4	second (spring)	1	1.73WN81AIU119_25
154	II	geology	warsztaty dendrochronologiczne	dendrochronological workshops	2	second (spring)	1	1.73WN81AIU119_16S
155	II	geology	warsztaty diatomologiczne	diatomological workshops	2	second (spring)	1	1.73WN81AIU119_20S
156	II	geology	warsztaty malakologiczne	malacological workshops	2	second (spring)	1	1.73WN81AIU119_17S
157	II	geology	warsztaty z mikropaleontologii morskiej	workshops on marine micropaleontology	2	second (spring)	1	1.73WN81AIU119_15S
158	II	geology	warsztaty z preparatyki i obrazowania skamieniałości	workshops on the preparation and imaging of fossils	2	second (spring)	1	1.73WN81AIU119_19S
159	II	geology	warsztaty z preparatyki mineralogiczno-petrograficznej	workshops on mineralogical and petrographic preparation	2	second (spring)	1	1.73WN81AIU119_18S
160	II	geology	pracownia magisterska	diploma workshop	2	second (spring)	1	1.73WN81AIU119_36S
161	II	geology	seminarium magisterskie	diploma seminar	2	second (spring)	1	1.73WN81AIU119_35S
162	II	geology	analiza facjalna i stratygrafia sekwencyjna	facies analysis and sequential stratigraphy	5	first (autumn)	2	1.73WN81AIU119_27S
163	II	geology	petrologia skał osadowych	petrology of sedimentary rocks	4	first (autumn)	2	1.73WN81AIU119_28S
164	II	geology	warsztaty geotechniczne	geotechnical workshops	2	first (autumn)	2	1.73WN81AIU119_30S
165	II	geology	warsztaty hydroakustyczne	hydroacoustic workshops	2	first (autumn)	2	1.73WN81AIU119_29S
166	II	geology	warsztaty z geologii węglowodorów	workshops on hydrocarbon geology	2	first (autumn)	2	1.73WN81AIU119_32S
167	II	geology	warsztaty z petrografii węglanów	workshops on carbonate petrography	2	first (autumn)	2	1.73WN81AIU119_31S
168	II	geology	współczesne problemy geologii	contemporary geological problems	3	first (autumn)	2	1.73WN81AIU119_34S
169	II	geology	pracownia magisterska	diploma workshop	4	first (autumn)	2	1.73WN81AIU119_36S
170	II	geology	seminarium magisterskie	diploma seminar	4	first (autumn)	2	1.73WN81AIU119_35S
171	II	geology	pracownia magisterska	diploma workshop	6	second (spring)	2	1.73WN81AIU119_36S
172	II	geology	seminarium magisterskie	diploma seminar	18	second (spring)	2	1.73WN81AIU119_35S
173	II	tourism and recreation	bezpieczeństwo w turystyce i rekreacji	safety in tourism and recreation	4	first (autumn)	2	1.71WN35PIU119_22S
174	II	tourism and recreation	jakość i innowacje w turystyce	quality and innovation in tourism	4	first (autumn)	2	1.71WN35PIU119_22S
175	II	tourism and recreation	organizacja i obsługa zagranicznej turystyki przyjazdowej	organization and management of foreign incoming tourism	4	first (autumn)	2	1.71WN35PIU119_9S
176	II	tourism and recreation	organizacja turystyki w regionie	tourism organization in the region	4	first (autumn)	2	1.71WN35PIU119_30S
177	II	tourism and recreation	organizacja usług dla biznesu krajowego i międzynarodowego	organization of services for domestic and international business	4	first (autumn)	2	1.71WN35PIU119_8S
178	II	tourism and recreation	pracownia dyplomowa	diploma workshop	2	first (autumn)	2	1.71WN35PIU119_20S
179	II	tourism and recreation	seminarium dyplomowe	diploma seminar	3	first (autumn)	2	1.71WN35PIU119_21S
180	II	tourism and recreation	działalność touroperatora	tour operator activities	2	second (spring)	2	1.71WN35PIU119_24S
181	II	tourism and recreation	międzynarodowy rynek turystyczny	international tourism market	3	second (spring)	2	1.71WN35PIU119_10S
182	II	tourism and recreation	sieci i systemy hotelowe na świecie	hotel chains and systems in the world	2	second (spring)	2	1.71WN35PIU119_25S
183	II	tourism and recreation	zarządzanie projektami turystycznymi	tourism project management	2	second (spring)	2	1.71WN35PIU119_26S
184	II	tourism and recreation	pracownia dyplomowa	diploma workshop	2	second (spring)	2	1.71WN35PIU119_20S
185	II	tourism and recreation	seminarium dyplomowe	diploma seminar	5	second (spring)	2	1.71WN35PIU119_21S